

Application No. 10/727,246

December 7, 2005

Request for Continued Examination Amendment responsive to Office Action of May 12, 2005

In the Claims:

Please amend the claims as indicated below:

1-21.(cancelled)

22.(new) A latch assembly control method, comprising the steps of:

integrating a latch assembly with a motor having at least one gear thereof for actuating a plurality of components of said latch assembly wherein each one of said at least one gear has a multiplicity of gearteeth; and

associating a geartooth sensor with said latch assembly, wherein said geartooth sensor senses the movement of at least one of said gearteeth to thereby sense a position of said at least one gear, wherein said at least one gear completes less than one.

23.(new) The method of claim 22 further comprising the step of configuring said geartooth sensor to comprises at least one magnet located proximate to said at least one gear of said motor.

24.(new) The method of claim 22 further comprising the step of providing the latch assembly in a vehicle door.

25.(new) The method of claim 22 further comprising the step of integrating said geartooth sensor with said latch assembly.

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26.(new) The method of claim 22 further comprising the step of providing a vehicle management module which communicates with said door latch assembly for control of said vehicle door latch assembly, including said motor and said at least one gear thereof.

27.(new) The method of claim 26 further comprising the step of communicating data from said gear tooth sensor, wherein said data is indicative of a known reference point associated with said at least one gear for calibration thereof.

28.(new) The method of claim 22 further comprising the step of calibrating via a vehicle management module, at least one component of said door latch assembly based on data collected from said gear tooth sensor.

29.(new) The method of claim 22 further comprising the step of providing a plurality of gear tooth sensors for collecting position data associated with said at least one gear.

20.(new) The method of claim 26 further comprising the step of actuating at least one component of said door latch assembly utilizing said vehicle management module based on data collected from a plurality of gear tooth sensor.

31.(new) The method of claim 26 further comprising the step of actuating at least one component of said door latch assembly utilizing said vehicle management module based on data collected from said at least one gear tooth sensor.

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32.(new) A latch assembly control system, comprising:

a latch assembly integrated with a motor having at least one gear thereof for actuating a plurality of components of said latch assembly wherein each one of said at least one gear has a multiplicity of gearteeth; and

a geartooth sensor associated with said latch assembly, wherein said geartooth sensor senses the movement of at least one of said gearteeth to thereby sense a position of said at least one gear, and wherein said at least one gear completes less than one revolution.

33.(new) The system of claim 32 wherein said geartooth sensor comprises at least one magnet located proximate to said at least one gear of said motor.

34.(new) The system of claim 32 wherein said latch assembly comprises a vehicle door latch assembly.

35.(new) The system of claim 32 wherein said geartooth sensor is integrated with said latch assembly.

36.(new) The system of claim 32 further comprising a vehicle management module which communicates with said door latch assembly for control of said vehicle door latch assembly, including said motor and said at least one gear thereof.

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37.(new) The system of claim 36 wherein said geartooth sensor communicates data indicative of a known reference point associated with said at least one gear for calibration thereof.

38.(new) The system of claim 36 wherein said vehicle management module calibrates at least one component of said door latch assembly based on data collected from said geartooth sensor.

39.(new) The system of claim 32 further comprising a plurality of geartooth sensors for collecting position data associated with said at least one gear.

40.(new) The system of claim 36 wherein said vehicle management module actuates at least one component of said door latch assembly based on data collected from said plurality of geartooth sensor.

41.(new) A latch assembly control system, comprising:

a latch assembly integrated with a motor having at least one gear thereof for actuating a plurality of components of said latch assembly wherein each one of said at least one gear has a multiplicity of gearteeth; and

a geartooth sensor associated with said latch assembly, wherein said geartooth sensor senses the movement of at least one of said gearteeth to thereby sense a position of said at least one gear, and wherein said at least one gear completes less than one revolution to thereby provide a known reference point registration via at least one signal generated by said geartooth sensor; and

a vehicle management module which communicates with said door latch assembly for control of said vehicle door latch assembly, including said motor

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and said at least one gear thereof, wherein said vehicle management module actuates at least one component of said door latch assembly based on at least one signal generated by said at least one gear tooth sensor.